United States Environmental Protection Agency
Region 7
901 N. 5th Street
Kansas City, KS 66101

Date: 09/20/2006

Subject: Transmittal of Sample Analysis Results for ASR #: 3152
Project ID: EMA78Q00
Project Description: United Zinc No. 1 site sampling

From: Dale I. Bates, Director
Regional Laboratory, Environmental Services Division

To: Eddie McGlasson
SUPR/ER&R

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

Project Manager: Eddie McGlasson **Org:** SUPR/ER&R **Phone:** 913-551-7756
Project ID: EMA78Q00
Project Desc: United Zinc No. 1 site sampling
Location: Iola **State:** Kansas **Program:** Superfund
Site Name: United Zinc No. 1 - **Site ID:** A78Q **Site OU:** 00
Purpose: Site Characterization **GPRA PRC:** 302DC6C

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

__ = Field Sample

Units: Specific units in which results are reported.

mg/kg = Milligrams per Kilogram

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank)= Values have been reviewed and found acceptable for use.
J = The identification of the analyte is acceptable; the reported value is an estimate.
U = The analyte was not detected at or above the reporting limit.

ASR Number: 3152 **Sample Information Summary** **09/20/2006**

Project ID: EMA78Q00 **Project Desc:** United Zinc No. 1 site sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 - __		Solid	EPA 254, Cell #1 (326 South 2nd Street)		08/19/2006	10:00			09/05/2006
2 - __		Solid	EPA 285, Cell #2 (517 South Sycamore)		08/21/2006	15:35			09/05/2006
3 - __		Solid	EPA 298, Cell #1 (319 South Sycamore)		08/22/2006	09:30			09/05/2006
4 - __		Solid	REPA 295, Cell #1 (307 South Sycamore)		08/22/2006	10:00			09/05/2006
5 - __		Solid	EPA 274, Cell #2 (623 South Sycamore)		08/16/2006	14:10			09/05/2006
6 - __		Solid	EPA 3, Cell #7 (300 South Jefferson)		08/16/2006	11:50			09/05/2006
7 - __		Solid	EPA 297, Cell #1 (224 South Jefferson)		08/23/2006	15:10			09/05/2006
8 - __		Solid	EPA 299, Cell #2 (309 East Street)		08/24/2006	11:25			09/05/2006
9 - __		Solid	EPA 49, Cell #2 (801 East Jackson)		08/24/2006	14:00			09/05/2006
10 - __		Solid	EPA 287, Cell #1 (310 South Buckeye)		08/25/2006	10:22			09/05/2006
11 - __		Solid	EPA 281, Cell #1 (401 South Buckeye)		08/28/2006	14:00			09/05/2006
12 - __		Solid	EPA 328, Cell #4 (102 North Buckeye)		08/29/2006	14:00			09/05/2006
13 - __		Solid	EPA 334, Cell #1 (210 South Cottonwood)		08/29/2006	15:45			09/05/2006
14 - __		Solid	EPA 325, Cell #1 (316 South Cottonwood)		08/30/2006	10:45			09/05/2006
15 - __		Solid	EPA 326, Cell #3 (322 South Cottonwood)		08/30/2006	11:30			09/05/2006
16 - __		Solid	EPA 294, Cell #1 (415 South Cottonwood)		08/30/2006	13:45			09/05/2006
17 - __		Solid	EPA 309, Cell #2 (420 South Cottonwood)		08/30/2006	14:45			09/05/2006
18 - __		Solid	EPA 340, Cell #1 (501 East Madison)		08/30/2006	17:15			09/05/2006
19 - __		Solid	EPA 314, Cell #3 (502 South Cottonwood)		08/31/2006	10:10			09/05/2006
20 - __		Solid	EPA 315, Cell #1 (622 South Cottonwood)		08/31/2006	13:15			09/05/2006

Analysis **Comments About Results For This Analysis**

1 Metals in Solids by ICP

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 11-__ 12-__ 13-__ 14-__
15-__ 16-__ 17-__ 18-__ 19-__ 20-__

Comments:

Slight arsenic contamination was found in the calibration blanks. Only samples containing this analyte at a level greater than ten times the contamination level of the blank are reported without being qualified. All samples that contained this analyte but at a level less than ten times the contamination in the blank have the result U-coded indicating that the reporting limit has been raised to the level found in the sample. Samples affected were: arsenic in -9 through -12, -15, -16, -18, and -20.

Cadmium in samples -1 through -3, -5, -8 through -12, -15, -16, -18, and -20 was J-coded. Positive results were J-coded due to negative recoveries of this analyte in the interference check samples (ICS) which was not present in the ICS solution but whose absolute value was greater than the method detection limit (MDL), therefore, a possibility of false negatives exists. The actual reporting limits may be higher than the reported values.

Cadmium was J-coded in samples -1 through -20. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to high recovery of this analyte in the laboratory matrix spike. The actual concentration for this analyte may be lower than the reported value.

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Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Metals in Solids by ICP					
Arsenic	mg/kg	13.2	15.2	16.6	26.1
Barium	mg/kg	141	194	219	212
Cadmium	mg/kg	4.68 J	5.72 J	5.85 J	9.67 J
Lead	mg/kg	946	991	782	1200
Zinc	mg/kg	1610	1420	1580	3180

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Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 Metals in Solids by ICP					
Arsenic	mg/kg	90.6	33.8	16.4	15.4
Barium	mg/kg	213	221	262	199
Cadmium	mg/kg	4.18 J	6.38 J	8.39 J	5.62 J
Lead	mg/kg	1640	838	1140	1130
Zinc	mg/kg	1770	1720	2420	1920

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Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 Metals in Solids by ICP					
Arsenic	mg/kg	7.40 U	8.54 U	8.54 U	8.22 U
Barium	mg/kg	186	147	166	376
Cadmium	mg/kg	4.05 J	5.39 J	4.12 J	5.75 J
Lead	mg/kg	400	518	541	1050
Zinc	mg/kg	952	1600	1310	1860

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Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
1 Metals in Solids by ICP					
Arsenic	mg/kg	18.0	16.6	8.74 U	8.51 U
Barium	mg/kg	203	230	198	177
Cadmium	mg/kg	6.71 J	6.32 J	4.86 J	2.35 J
Lead	mg/kg	1050	1010	582	996
Zinc	mg/kg	2020	2660	1750	645

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Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
1 Metals in Solids by ICP					
Arsenic	mg/kg	29.9	7.81 U	21.6	8.09 U
Barium	mg/kg	252	148	208	184
Cadmium	mg/kg	24.4 J	2.40 J	7.73 J	3.42 J
Lead	mg/kg	2010	270	1270	600
Zinc	mg/kg	6230	686	3680	917